TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2018-02-19-04**	**Date: 21-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.	
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.	
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	19-02-2018	
Sample ID No	:	2018-02-19-04/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	19-02-2018	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	468	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.39
4	Average percentage	%	6.4	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಉಪ-ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ, ಬಿಬಿಎಂಪಿ
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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2018-02-19-04** **Date: 21-02-2018**

Sample ID : **2018-02-19-04/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	78	86	18.4	81.6	70-88
4.75	99	185	39.5	60.5	53-71
2.36	78	263	56.2	43.8	42-58
1.18	42	305	65.2	34.8	34-48
0.6	18	323	69.0	31.0	26-38
0.3	29	352	75.2	24.8	18-28
0.15	45	397	84.8	15.2	12-20
0.075	48	445	95.1	4.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	81	87	18.6	81.4	70-88
4.75	101	188	40.1	59.9	53-71
2.36	75	263	56.1	43.9	42-58
1.18	42	305	65.0	35.0	34-48
0.6	21	326	69.5	30.5	26-38
0.3	25	351	74.8	25.2	18-28
0.15	48	399	85.1	14.9	12-20
0.075	49	448	95.5	4.5	4-10

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-02-12-09** **Date: 15-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	12-02-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.43	11.35	10KN(min)
2	Marshal flow at 60°C, mm	3.26	3.22	2-4
3	Percent air Voids	4.29	4.76	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.33	14.45	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.38	71.25	65-75
6	Density, g/cc	2.24	2.27	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-02-12-09** **Date: 15-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	12-02-2018

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.7	Minimum Retained Coating 95%
2	98.5	1.5		
3	97.0	3.0		

Note:
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****End of Report****

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-02-12-09** **Date: 14-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-2018
Sample ID No	:	2018-02-12-09/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	12-02-2018
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	104	104	2.1	97.9	90-100
9.5	762	866	17.3	82.7	70-88
4.75	935	1801	36.0	64.0	53-71
2.36	587	2388	47.8	52.2	42-58
1.18	524	2912	58.2	41.8	34-48
0.6	512	3424	68.5	31.5	26-38
0.3	515	3939	78.8	21.2	18-28
0.15	432	4371	87.4	12.6	12-20
0.075	334	4705	94.1	5.9	4-10
PAN	295	5000	100	0.0	0

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